

Title: Honeywell WMS System Report Development	
Document Number: RD-001	Owner (Title Only): IDCommerce
Revision Number: 0	

Purpose:

To provide technical training for IDCommerce Information Technology (IT) staff for Honeywell Warehouse Management System (Hereinafter referred as “WMS”) report development.

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Document Control

Revision	Date	Revised by	Reason for Change
0	08/07/2019	Phoon	New Document

1.0 Target Audience

The person should have basic IT knowledge with ideally with minor Structure Query Language (SQL) or designing skill to perform the report development.

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2.0 Introduction to Honeywell WMS Report Development

Generally, there are three methods of report development as listed below in 2.1, 2.2 and 2.3. For section 2.1 will focus on standard report development, section 2.2 will focus on partially customized report development and section 2.3 will focus on the fully customized report development.

Note: For this document, we focus on the Advance Shipping Notice (ASN) report development.

2.1 Standard report development

2.1.1 In the WMS main user interface, proceed to “Business System Config” followed by “Data Export Rule” as illustrated as Figure 2.0.

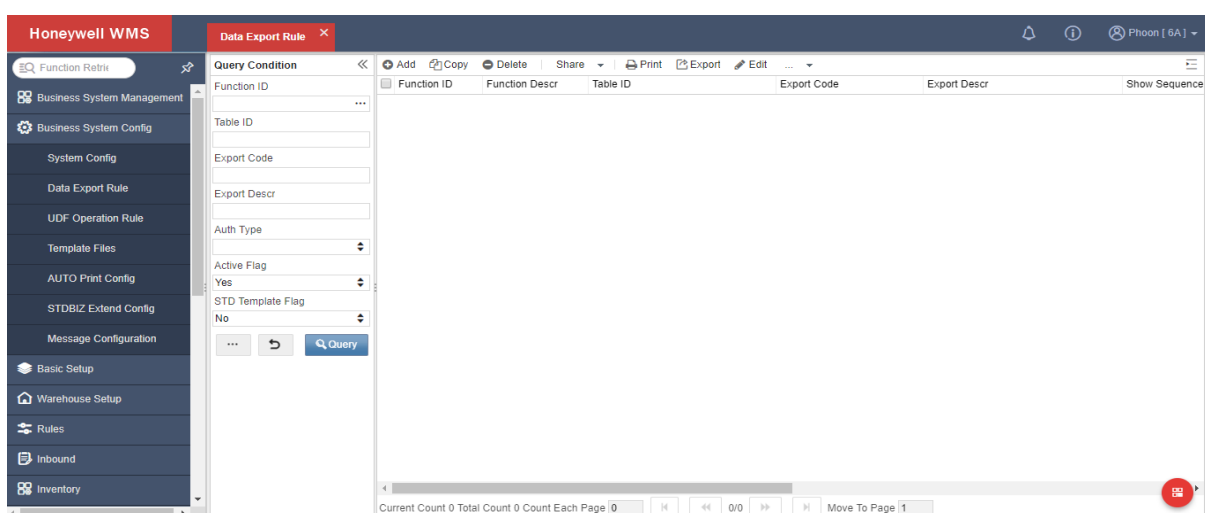


Figure 2.0: Data Export Rule interface

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2.1.2 Input “%ASN” to the “Table ID” and click on the “Query” button.

Note: For this tutorial, select “ASN_INBTASK_LIST” as illustrated in Figure 2.1.

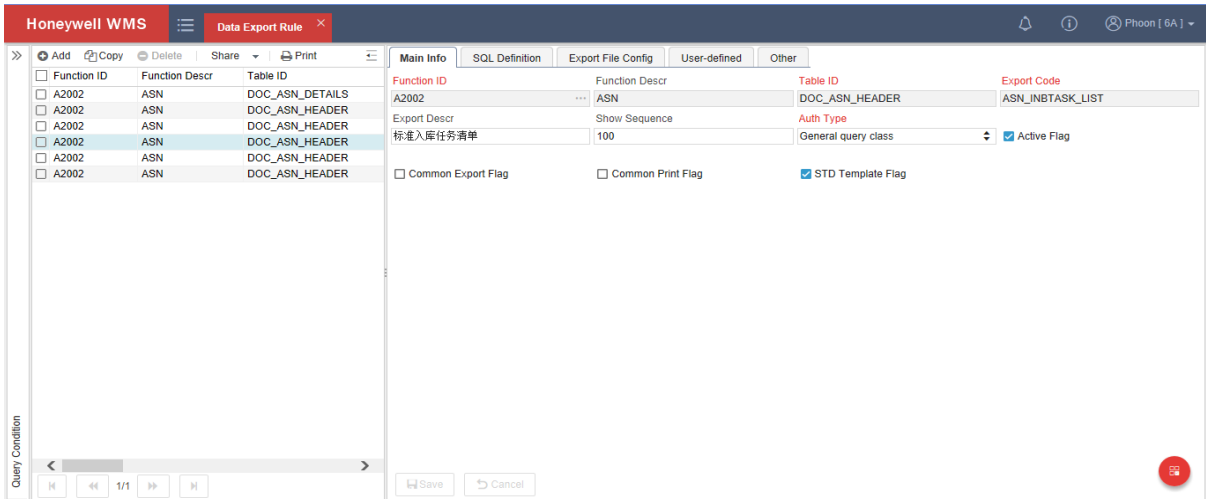


Figure 2.1: Selection of report development

2.1.3 Proceed to “SQL Definition” and proceed with SQL query in the “Query Fields” section as illustrated in Figure 2.2.

Note: To know the corresponding table value can proceed to Section 3.

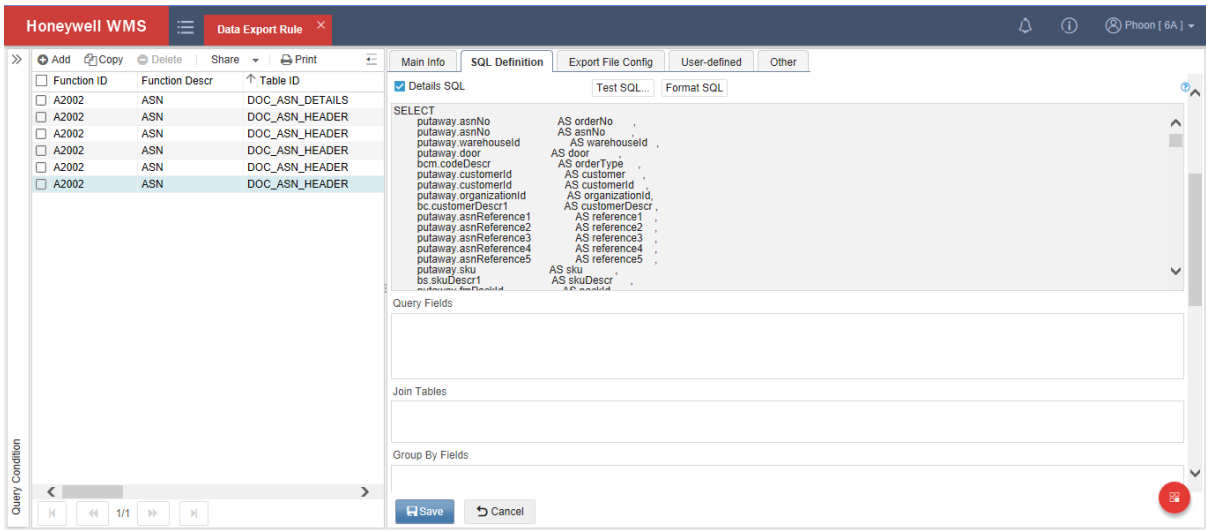


Figure 2.2: SQL editing interface

2.1.4 After SQL editing, proceed with “Export File Config”. Tick on the “EXP to Print” options menu and click on the “Edit Template File”. A new Grid report interface is prompted for report design as illustrated in Figure 2.3.

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Note: If Grid Report plugin is not installed please proceed as system guidance accordingly.

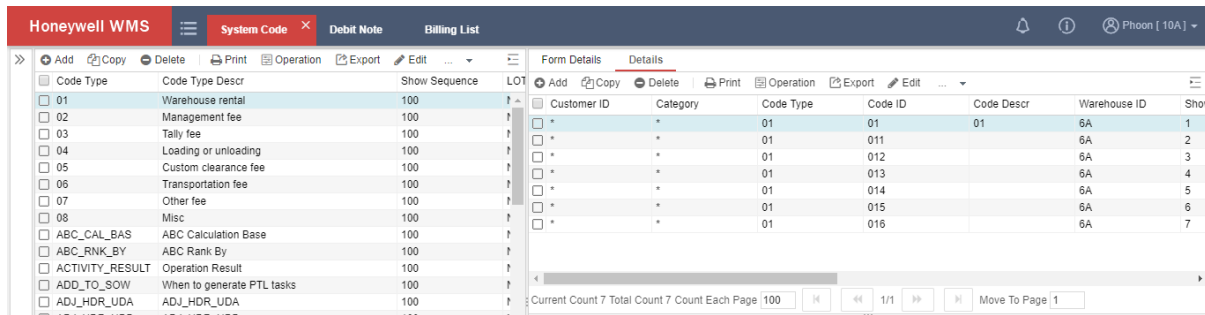


Figure 2.3: Grid Report interface

2.1.5 Design the template as user need and click on the “Save” button to complete the report development. Exit the Grid Report plugin and return to WMS system.

2.1.6 The template is printable based on the corresponding module, for this tutorial is printable in the “Inbound” module, “ASN” section as illustrated as Figure 2.4.

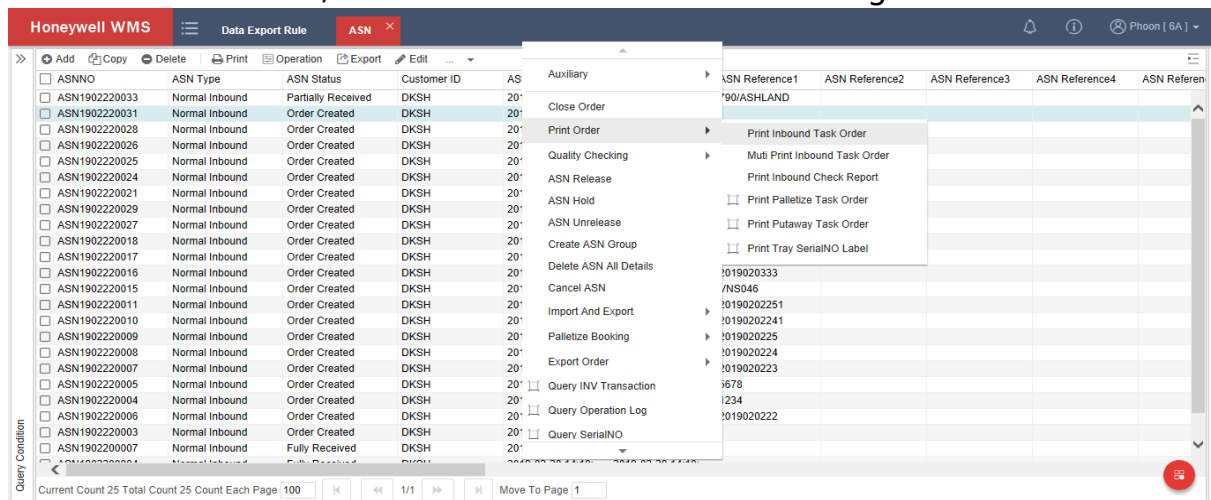


Figure 2.4: Report printing

2.1.7 Repeat the procedure from 2.1.1 to 2.1.7 if any further amendment is needed.

2.2 Partially customized report development

For partially customized report development can be configured into two sections as i. Report development and ii. Authorization.

2.2.1 Partial customized report development

2.2.1.1 Proceed as procedure 2.1.1, click on the “Add” button and input the “Function ID”, “Table ID”, “Export Code”, “Export Description”,

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“Show Sequence” and select the “General query class” from the “Authorization Type”. Then click on the “Save” button as illustrated in Figure 2.5.

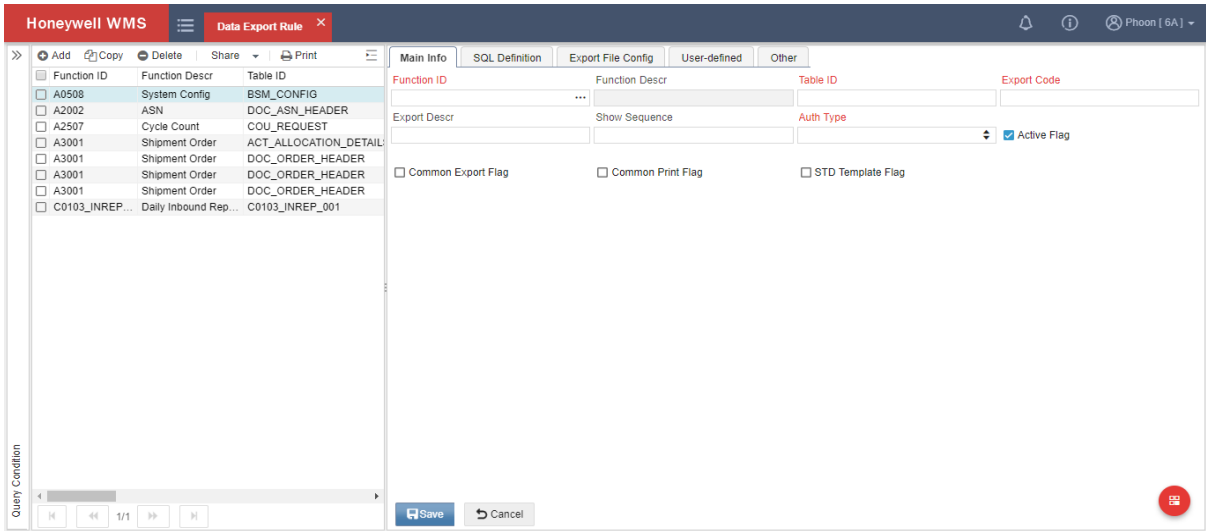


Figure 2.5: Customization report generation

2.2.1.2 To proceed with report development, please follow the procedure 2.1.3 to 2.1.7 above.

2.2.2 Authorization

2.2.2.1 Proceed to WMS main interface, “Business System Management”, “Data Export Authorization” and prompt with “Data Export Authorization” interface as illustrated as Figure 2.6.

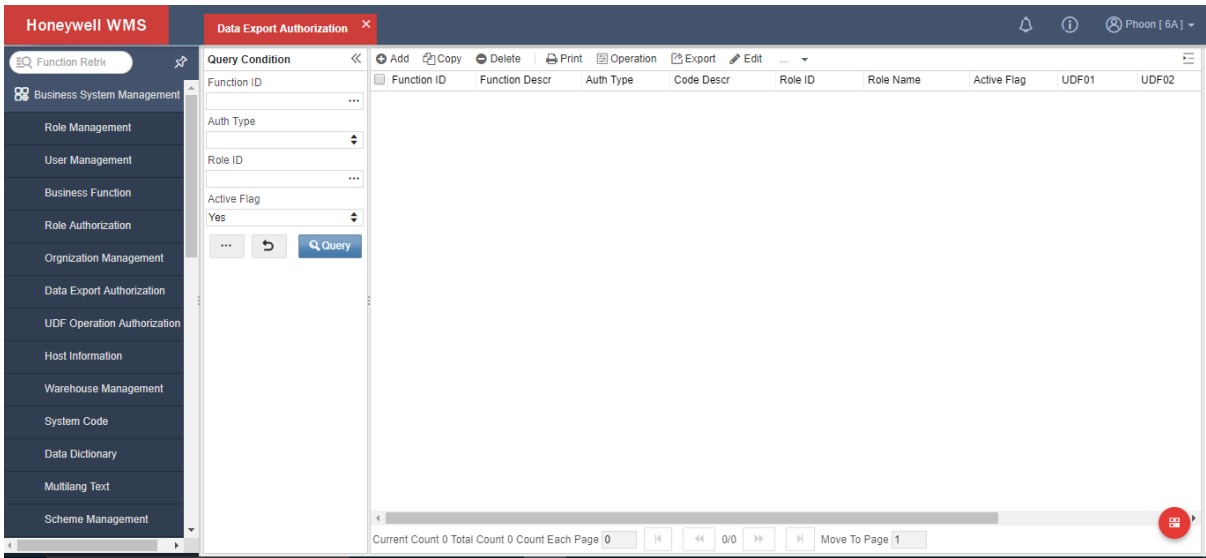


Figure 2.6: Data Export Authorization interface

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2.2.3 Click on the “Add” button and prompt with the detail interface. Input the “Function ID”, select “General query class” from “Authorization Type” and “Role ID”. Click on the “Save” button to confirm the authorization granted as illustrated as Figure 2.7.

Note: The authorization is thigh with the user role.

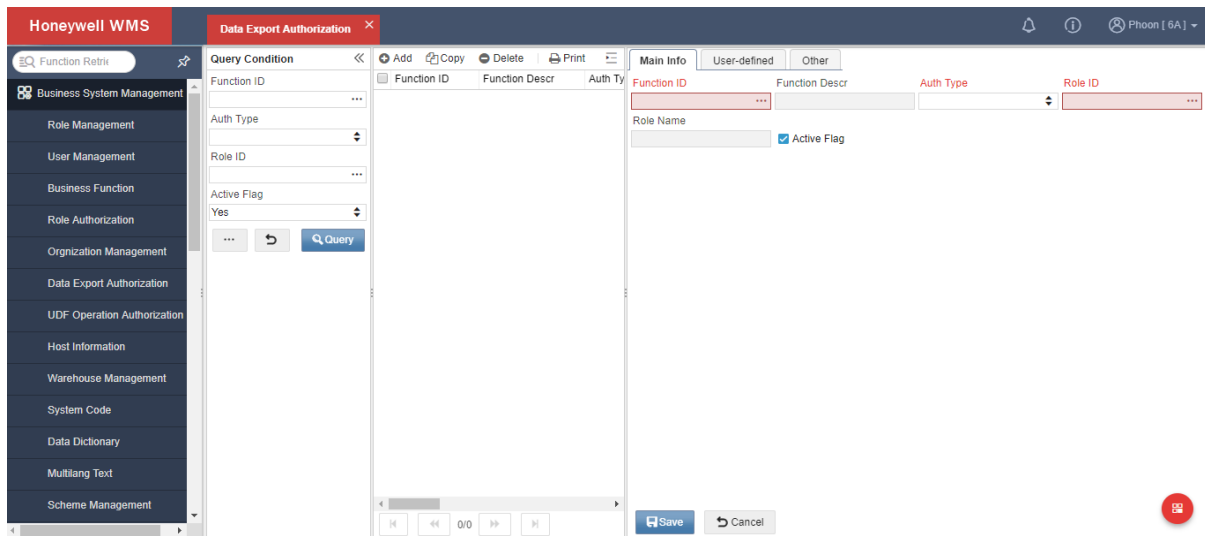


Figure 2.7: Data Export Authorization interface

2.2.4 For the customized report is printable directly from the “Print” option instead of right click as illustrated as Figure 2.8.

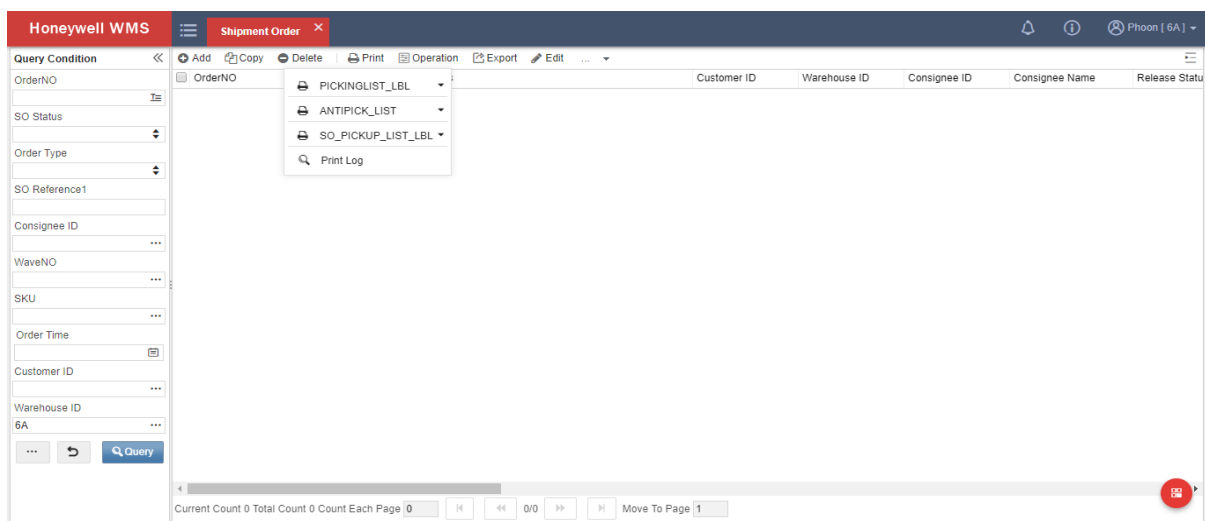


Figure 2.8: Customized report printing interface

2.3 Fully customized report development

For fully customized report development can be configured into two sections as i. Report development and ii. Role Authorization.

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2.3.1 Fully customized report development

- 2.3.1.1 Head to the WMS main interface, select the “Customized Development” module and “Customized Report Config” as illustrated as Figure 2.9.



Figure 2.9: Proceed to Customized Report Development interface

- 2.3.1.2 Input the “Function ID”, “Function Description” for new fully customized report naming. Click on the “Save” button to confirm the naming as illustrated as Figure 2.10.

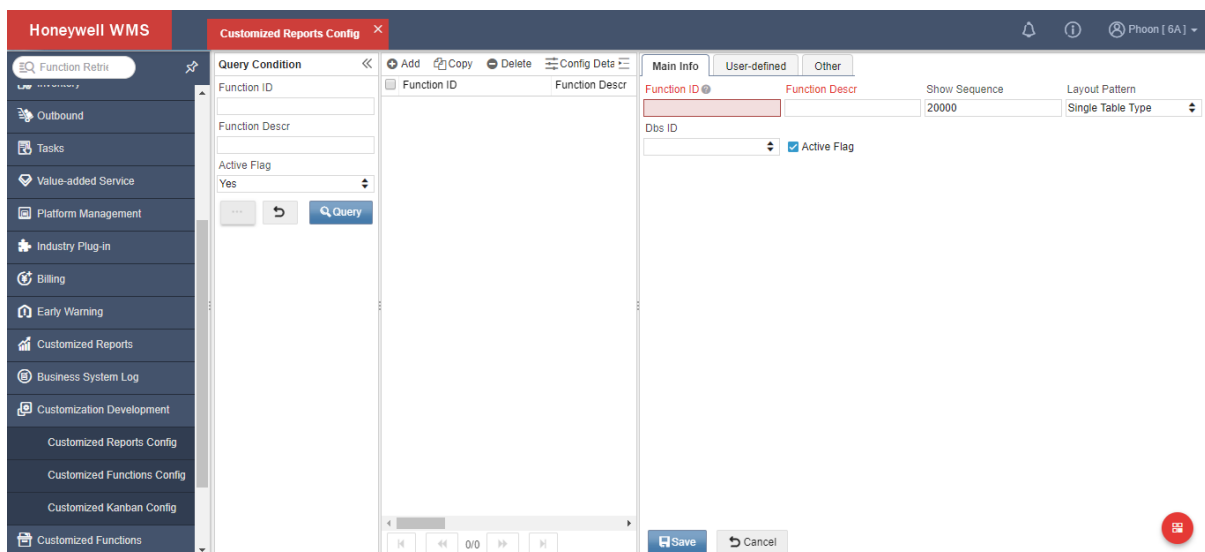


Figure 2.10: Fully customized report development interface

- 2.3.1.3 Click on the “Config Detail” button and proceed to the development interface as illustrated as Figure 2.11.

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Note: This development involves three sections as i. Data source used for data mining, ii. UDF Form used for query condition and iii. UDF Grid used for the queried report.

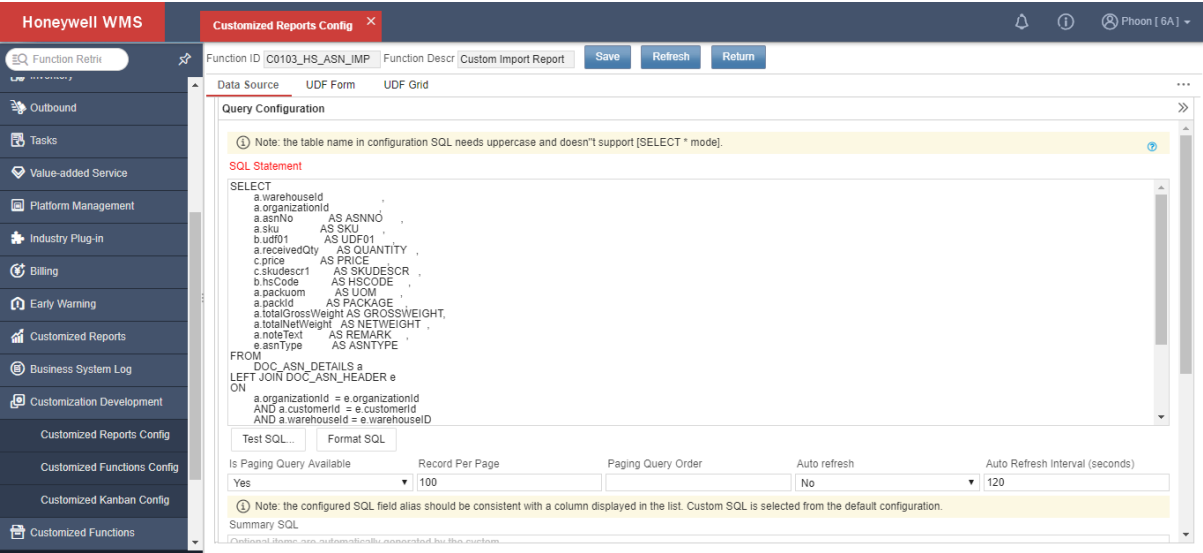


Figure 2.11: Fully customized report development interface [Data Source]

Note: Proceed to data mining based on the SQL programming

2.3.1.4 Click on the “UDF Form” for query condition design interface as illustrated as Figure 2.12.

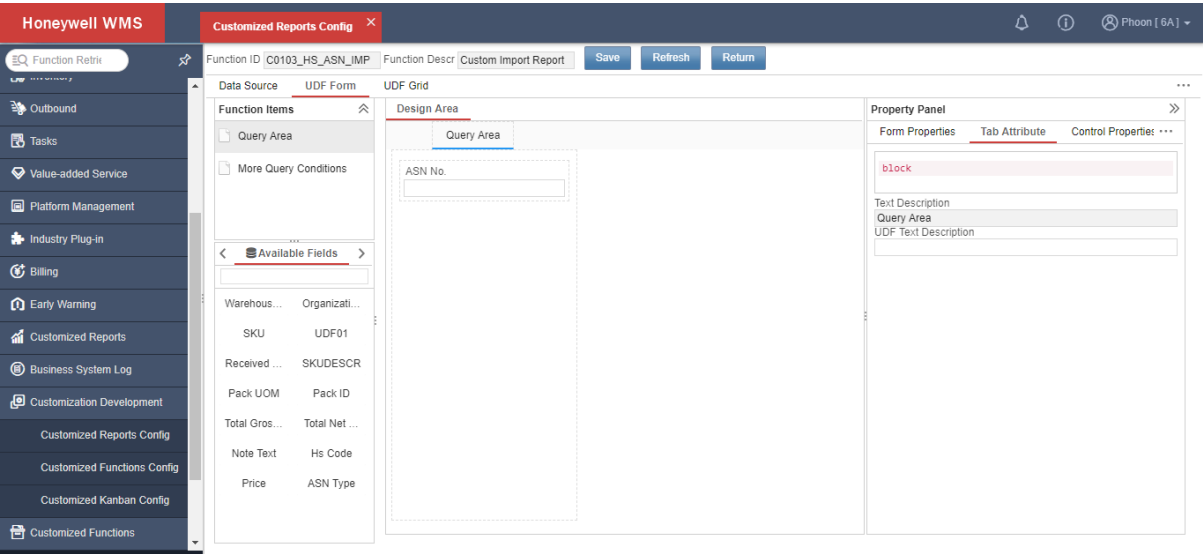


Figure 2.12: Fully customized report development interface [UDF Form]

2.3.1.5 Click on the “UDF Grid” for reporting design interface as illustrated as Figure 2.12.

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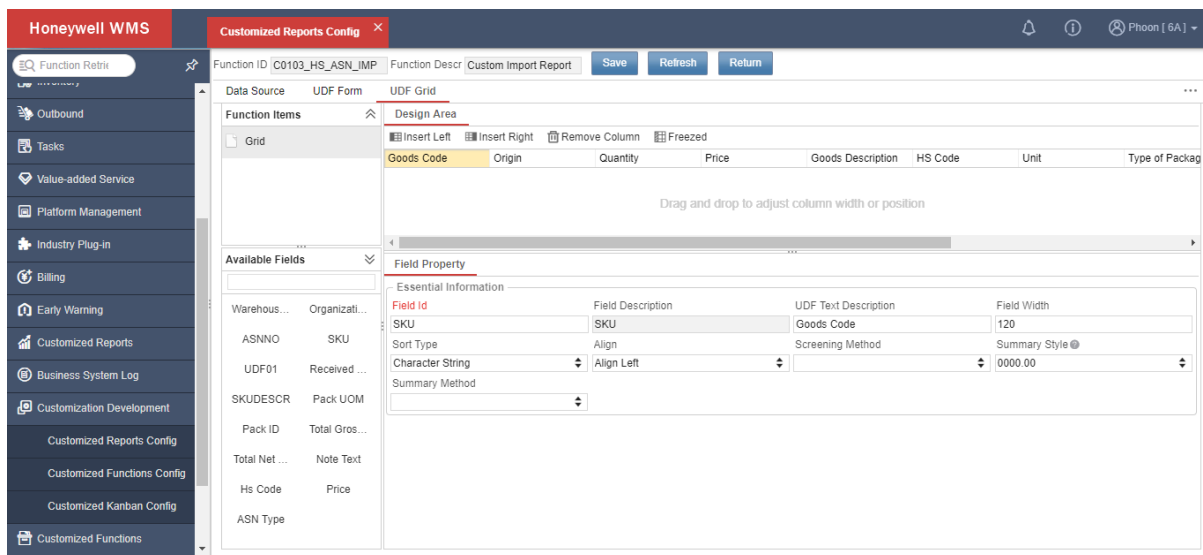


Figure 2.13: Fully customized report development interface [UDF Grid]

2.3.1.6 After completed the design, click on the “Save” button to complete the fully customized report development.

2.3.2 Role authorization

The role authorization for fully a customized report development is different from the partial customized report.

2.3.2.1 Head to the WMS main interface, select the “Business System Management” module and “Role Authorization” as illustrated as Figure 2.14.

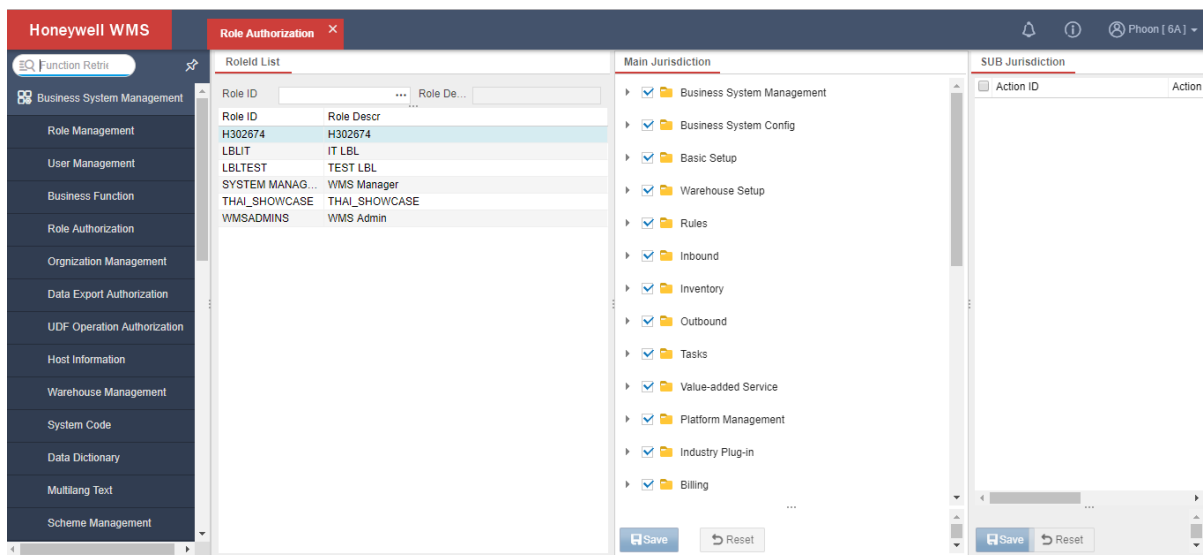


Figure 2.14: Role authorization

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2.3.2.2 The authorization can be granted at “Customized Report” in the “Main Jurisdiction” section as illustrated as 2.15.

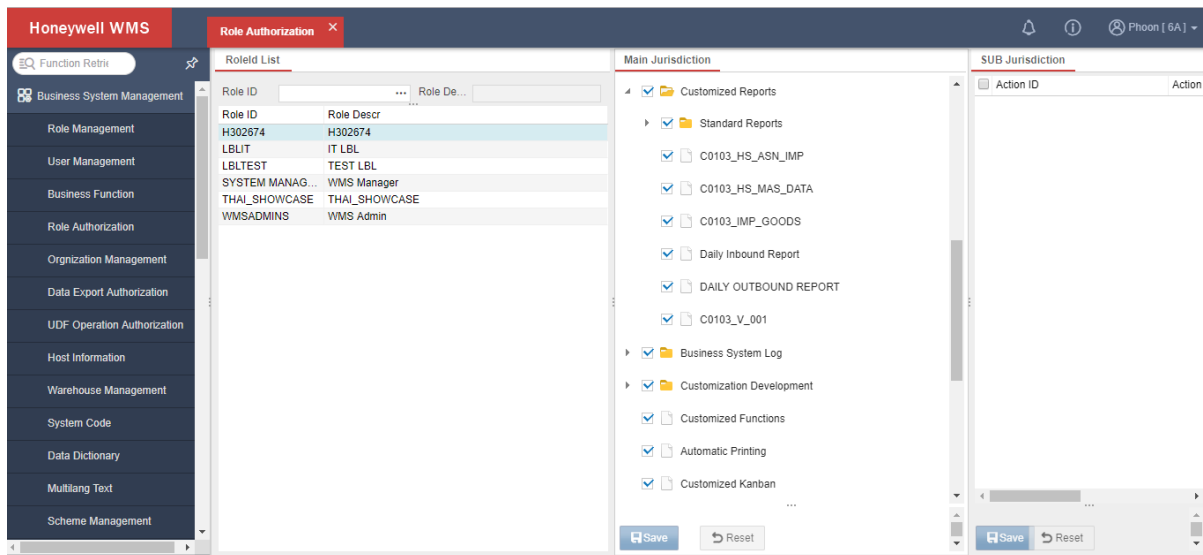


Figure 2.15: Role Authorization interface

2.3.2.3 The fully customized report can be view at the WMS main interface, “Customized Reports” followed by “Standard Report” as illustrated as Figure 2.16.



Figure 2.16: Customization report interface

3.0 Data Mining

3.1 Data mining by Structure Query Language (SQL)

3.1.1 All the text field can be lookup at WMS main interface, “Business System Management” followed by “Data Dictionary” as illustrated as Figure 3.0.

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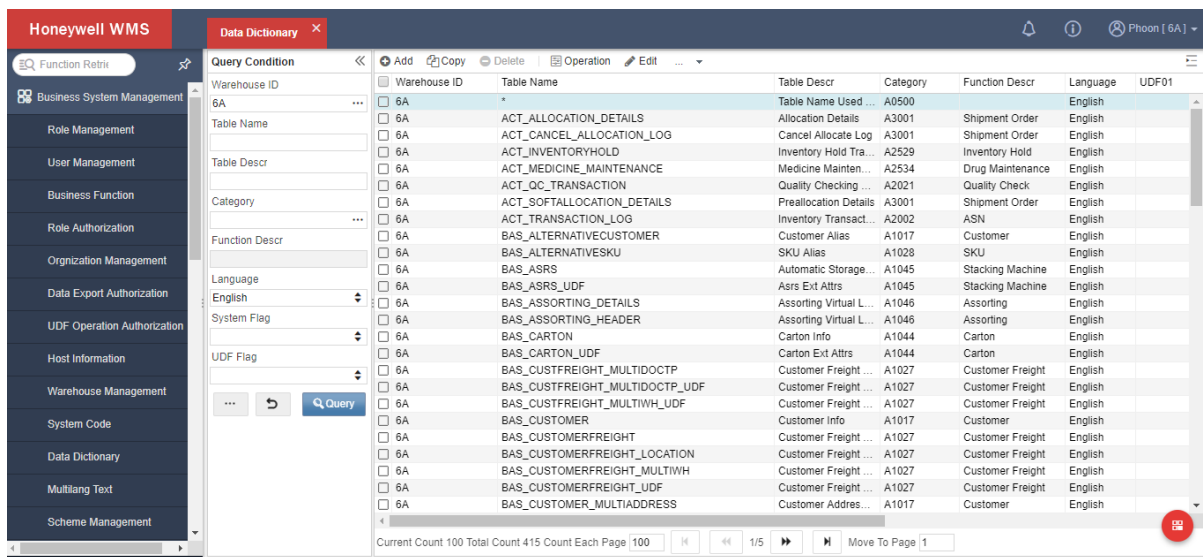


Figure 3.0: Data Dictionary interface [Main interface]

3.1.2 To find the corresponding text field within the table, proceed to the “Details” section as illustrated as Figure 3.1.

Note: All the “Field Name” is the text field for SQL while the “Field Description” is the display for the corresponding user interface.

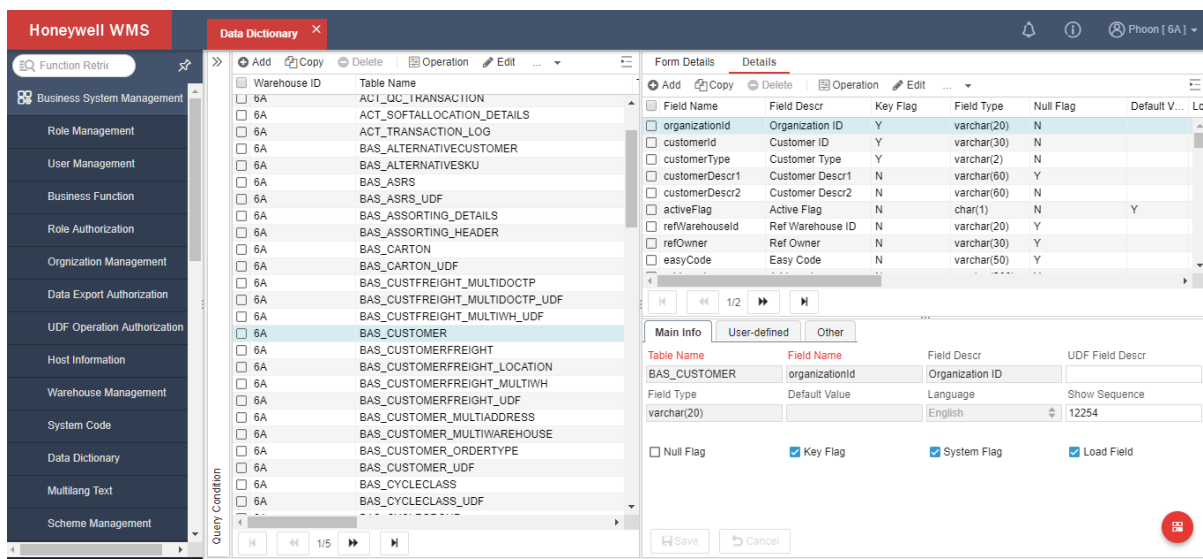


Figure 3.1: Data Dictionary interface [Detail interface]

3.2 Good practice for data mining for Honeywell WMS system

To avoid multiple data from multiple warehouses, it is highly recommended that adding the “organizationId” and “warehouseId” text field to narrow down the queried result.

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